Abstracts

Single-passband single-stopband narrow-band filters

Techniques are presented for obtaining an optimum filter response for narrow-band requirements of a single passband and a single stopband. For certain transformed equiripple passband responses, including Chebyshev and elliptic function responses and a new "double n/2 poles" response, the minimum number of resonators can be easily determined, resulting in reduced size and weight relative to more conventional frequency-symmetric bandpass or bandstop filters.

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